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TITLE 7---AGRICULTURE

CHAPTER III--BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301--DOMESTIC QUARANTINE NOTICES

WHITE-FRINGED BEETLE

[Pantomorus leucoloma and P. peregrinus]

§301.72-5c Administrative instructions modifying the restrictions of the white-fringed beetle quarantine by authorizing treatment by methyl bromide solution of balled nursery stock of specified thickness

Introductory note. The instructions in circular B. E. P. Q. 503 authorizing the treatment of nursery stock by a solution of methyl bromide, as last revised (March 15, 1940), provided for specified treatments of larvae of each of the species of white-fringed beetle, Pantomorus leucoloma Boh., the more common species, and P. peregrinus Buch., the new species. As a result of further investigations, the instructions are revised to provide for a modified treatment applying to both species and to all regulated areas other than in New Orleans and vicinity. The treatment authorized in the last revision of the circular is continued for the New Orleans area for the reason that the consistency of the soil in that area is such that the treatment can be used effectively only on soil balls not greater than 7 inches in diameter. In other areas, effective results are obtained on soil balls up to 8 inches in diameter. The specifications for treatment in the New Orleans area are brought forward in the instructions which follow.

(a) Treatment authorized. Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by subsection (a) of §301.72-5, Chapter III, Title 7, Code of Federal Regulations (Regulation 5 of Notice of Quarantine No. 72 on account of the white-fringed beetle), the following method of treatment for balled plants is hereby authorized when carried out under the supervision of an authorized inspector of the United States Department of Agriculture.

(b) Type of material authorized. (1) In Orleans Parish, including the city of New Orleans, and Saint Bernard Parish, La. The treatment shall be applied only to plants in soil balls not greater than 7 inches in diameter nor greater than 7 inches in thickness when not spherical.

(2) In all regulated area other than the parishes of Orleans and Saint Bernard, La. The treatment shall be applied only to plants in soil balls not greater than 8 inches in diameter nor greater than 8 inches in thickness when not spherical.

(c) Treatment method. (1) In all regulated areas.

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(i) The soil balls around the roots of plants must be buried in sand and plunged in boxes or trays approximately 1 foot deep, which are watertight.

(ii) A 2-inch space filled with sand shall be provided between the soil balls, also above and beneath them.

(iii) Such soil balls shall be treated with a solution of methyl bromide and alcohol at a concentration of 0.3 percent methyl bromide and 0.6 percent denatured ethyl alcohol by volume in water. The solution is to be prepared by first mixing the methyl bromide and alcohol together and then adding this mixture to the water and mixing thoroughly.

(iv) The aqueous solution of methyl bromide and alcohol shall then be applied evenly over the surface of the sand around the plants at the rate of 40 gallons per 100 square feet of surface area by means of a sprinkling can or sprayer.

(2) Exposure and temperature. (i) In Orleans Parish including the city of New Orleans, and Saint Bernard Parish, La. After the required dosage has been applied, the soil balls shall remain embedded in the sand for a period of 8 hours. The temperature of the soil balls during the treatment shall not be lower than 65° F.

(ii) In all regulated area other than Orleans Parish and Saint Bernard Parish, La. After the required dosage has been applied, the soil balls shall remain embedded in the sand for a period of 8 hours. The temperature of the soil balls during the treatment shall not be lower than 55° F.

(d) Disclaimer. There has been opportunity to test this treatment on only relatively few varieties of plants, and it is understood that no liability shall attach either to the United States Department of Agriculture or its employees in the event of injury to either plants or operators.

(e) Caution. Methyl bromide is a gas at ordinary temperatures. It is colorless and practically odorless, and in preparing the solution the operator should wear an approved gas mask.

This revision supersedes all previous issues of circular B. E. P. Q. 503.

AVERY S. HOYT,
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